

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/028,069 12/20/2001		Arunkumar B. Thippeswamy	CISCP740	2860	
54406 AKA CHAN L	7590 09/26/200°		EXAM	INER	
900 LAFAYE		SAM, PHIRIN			
SUITE 710 SANTA CLAF	RA. CA 95050		ART UNIT	PAPER NUMBER	
			2616		
			MAIL DATE	DELIVERY MODE	
			09/26/2007	PAPÉR	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

W
1/
Ch
יכי

			Application No.		Applicant(s)		
			10/028,069	• • •	THIPPESWAMY ET AL.		
Office Action Summary			Examiner		Art Unit		
		1	Phirin Sam		2616	•	
Period fo	The MAILING DATE of this commun or Reply	ication appe	ears on the	cover sheet with the c	orrespondence ad	idress	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this come p period for reply is specified above, the maximum st are to reply within the set or extended period for reply reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	IAILING DA s of 37 CFR 1.136 nunication. atutory period will will, by statute, of	TE OF THI 6(a). In no ever Il apply and will cause the applic	S COMMUNICATION tt, however, may a reply be time expire SIX (6) MONTHS from the translation to become ABANDONEI). ely filed the mailing date of this o O (35 U.S.C. § 133).	, .	
Status		٠		•			
1)	Responsive to communication(s) filed on 16 July 2007.						
2a)□	<u> </u>						
3)	,—						
-,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims		•				
4)⊠	Claim(s) 1-36 is/are pending in the a	application			•		
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) <u>1-10,17-21 and 27-31</u> is/are allowed.						
	Claim(s) <u>1-70,77-27 and 27-37</u> israte anowed. Claim(s) <u>11,12,14-16,22,23,25,26 and 32-36</u> is/are rejected.						
7) 🖂	Claim(s) 13 and 24 is/are objected t						
	Claim(s) are subject to restrict		election re	quirement.		·	
Applicati	ion Papers		•				
9)□	The specification is objected to by th	e Examiner					
•	The drawing(s) filed on <u>02 Novembe</u>			cepted or b) object	ed to by the Exar	niner.	
,	Applicant may not request that any obje		•	· · - ·	•	•	
	Replacement drawing sheet(s) including			•	, ,	FR 1.121(d).	
11)	The oath or declaration is objected to	•		=			
Priority ι	ınder 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim	for foreign p	riority und	er 35 U.S.C. § 119(a)	-(d) or (f).		
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority	documents	have been	received.			
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies	of the priorit	ty documer	nts have been receive	d in this National	Stage	
	application from the Internation	nal Bureau	(PCT Rule	17.2(a)).			
* 5	See the attached detailed Office action	n for a list o	of the certifi	ed copies not receive	d.	_	
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	•				
	4	D/ ~ ~	``	\sim			
Attachment(s) PHIRIN SAM							
Attachment(s) PHIRIN SAM PRIMARY EXAMINER 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) 🔲 Infor	mation Disclosure Statement(s) (PTO/SB/08)	,		5) Notice of Informal P	atent Application		
- гаре	r No(s)/Mail Date			6)	·		

Application/Control Number: 10/028,069

Art Unit: 2616

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 11, 12, 14, 22, 23, and 26 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent 6,636,482 (hereinafter referred as "Cloonan").

Regarding claims 11, 12, and 14, Cloonan discloses a method for forwarding packets associated with a session upstream from a subscriber unit to a central access point (see Fig. 2, col. 4, lines 35-44), the method comprising:

- (a) identifying a number (N) of available service flows between the subscriber unit and the central access point (see Fig. 2, col. 7, lines 23-61);
- (b) sending a first packet from the subscriber unit to the central access point on a first service flow included in the N available service flows (see Fig. 2, col. 4, lines 35-44);
- (c) sending an Nth packet from the subscriber unit to the central access point on an Nth service flow included in the N available service flows (see Figs. 2 and 3, col. 4, lines 35-60).

Regarding claims 22, 23, and 26, Cloonan discloses a device for forwarding packets associated with a session upstream to a central access point, the device comprising:

(a) means for causing a number (N) of available service flows to the central access point to be identified (see Fig. 2, col. 7, lines 23-61);

Application/Control Number: 10/028,069 Page 3

Art Unit: 2616

(b) means for causing a first packet to be sent to the central access point on a first service flow included in the N available service flows (see Fig. 2, col. 4, lines 35-44);

(c) means for causing an Nth packet to be sent to the central access point on an Nth service flow included in the N available service flows (see Figs. 2 and 3, col. 4, lines 35-60).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 5. Claims 15, 16, 25, and 32-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 6,636,482 (hereinafter referred as "Cloonan") in view of US Patent 6,889,385 (hereinafter referred as "Rakib").

Regarding claims 15, 16, and 25, Cloonan does not disclose DOCSIS. However, Rakib discloses DOCSIS (see Fig. 2, col. 32, lines 29-61). At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine DOCSIS teaching by Rakib with Cloonan. The motivation for doing so would have been to provide to permit the addition of high-

Art Unit: 2616

speed data transfer to an existing cable TV system. Therefore, it would have been obvious to combine Rakib and Cloonan to obtain the invention as specified in the claims 15, 16, and 25.

Regarding claims 32-36, Cloonan discloses a device for forwarding packets to a central access point, the device comprising:

- (a) a receiving component, the receiving component being arranged to receive a plurality of packets that are to be forwarded to a central access point (see Fig. 2, col. 5, lines 11-34);
- (b) a plurality of service flow identifiers which are associated with a plurality of service flows (see Fig. 2, col. 5, lines 53-67, and col. 6, lines 1-12);
- (c) a routing component, the routing component being arranged to receive the plurality of packets from the receiving component (see Fig. 2, col. 5, lines 11-34); the routing component further being arranged to provide a plurality of packets to the plurality of service flow identifiers (see Figs. 2 and 3, col. 7, lines 23-67, and col. 8, lines 1-38);

Cloonan does not disclose round robin. However, Rakib disclose round robin (see Fig. 7a, col. 45, lines 51-67, and col. 46, lines 1-10). At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine round robin teaching by Rakib with Cloonan. The motivation for doing so would have been to provide to prevent the congestion in the network. Therefore, it would have been obvious to combine Rakib and Cloonan to obtain the invention as specified in the claims 32-36.

Allowable Subject Matter

- 6. Claims 1-10, 17-21, and 27-31 are allowed.
- 7. Claims 13 and 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Application/Control Number: 10/028,069

Art Unit: 2616

Response to Arguments

8. Applicant's arguments with respect to claims 22, 23, 25, and 26 have been considered but

are moot in view of the new ground(s) of rejection.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Phirin Sam whose telephone number is (571) 272-3082. The

examiner can normally be reached on a compress schedule, from 8:00-5:30, first Wed off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jay Patel can be reached on (571) 272 - 2988. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Respectfully submitted,

Page 5

Date: September 19, 2007

PHIRIN SAM
PRIMARY EXAMINED